

Math 211
Quiz 05

F 12 Jul 2019

Your name: _____

Exercise

(2 pt) Consider the first-order IVP

$$y' = t\sqrt[3]{y} + \cos t^2, \quad y(1) = 0.$$

- (a) (1 pt) What, if anything, can we conclude about existence of solutions to this IVP? Justify briefly.

- (b) (1 pt) What, if anything, can we conclude about uniqueness of solutions to this IVP? Justify briefly.